

# Series 5 IWR Radio



## Serial Connectivity for Advanced RF Mesh Networks

The Landis+Gyr Series 5 Integrated WanGate Radio (IWR) provides a utility's wireless RF mesh network with new capabilities, including remote data collection and end-device monitoring and control. This radio enables full two-way peer-to-peer communication to all devices within the network. Additionally, the Series 5 IWR Radio can be used as a radio to directly interface with intelligent end devices such as reclosers, switches, and capacitor banks. It offers additional advanced functionality such as individual message prioritization, automatic network registration, and on-board memory for localized intelligence. Using programmable applets, these radios can be used to provide customized control capabilities to distributed devices, improving the near real-time monitoring and control functions.

## Key Benefits

**Interoperability** - Ability to integrate with numerous partners and supported devices using common protocols

**Distributed Intelligence** - Supports programming at the radio level for near real-time monitoring and control functions.

**Individual Message Prioritization** - Allows end devices to interface with other smart grid applications and functions

**Dynamic Routing** - Independent and intelligent routing by each radio in the mesh network

**Data Security** - Encryption security and error-checking algorithms assure integrity and reliability

**Downloadable Code** - Firmware updates easily downloaded over-the-air



PROVEN  
INTEROPERABILITY



DISTRIBUTED  
INTELLIGENCE



INDIVIDUAL  
MESSAGE  
PRIORITIZATION



DYNAMIC  
ROUTING



DATA  
SECURITY

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## PRODUCT SPECIFICATIONS

ELECTRICAL	
Input Voltage Range	6 to 28 VDC
Current	0.038 – 0.320A
RADIO PROCESSING UNIT	
CPU	Atmel AT91SAM9CN12B-CU-305
RAM Memory	32KB SRAM
FLASH Memory	8MB External
ROM Memory	160KB
RADIO	
Communication Protocol	IEEE 802.15.4g (RF Mesh / RF Mesh IP protocol)
RF Frequency Range	902 – 928 MHz
Channel Spacing	200, 400 kHz (RF Mesh IP protocol) 100, 300, 500 kHz (RF Mesh protocol)
RF Data Rate	50, 150, 200 kbps (RF Mesh IP protocol) 9.6, 19.2, 38.4, 115.2, 300 kbps (RF Mesh protocol)

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TRANSMITTER	
Output Power	21/25/30 dBm (0.125W/0.316W/1W)
Modulation Type	FSK/GFSK
MECHANICAL	
Enclosure	Extruded Aluminum
Dimensions	4.250" W x 5.770" D x 1.720" H
Weight	17.6 oz. (499 g)
Operating Temp Range	-40° to 85° C
Storage Temp Range	-40° to 85° C
REGULATORY COMPLIANCE	
FCC Part 15, Class B Anatel	

## GET IN TOUCH.

For more information and nationwide warranty terms, visit us at [landisgyr.com](http://landisgyr.com) or call us at 888-390-5733.



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